SESSION II CELLULAR STRUCTURES Gerd Maul & Matthew Weitzman

Jennifer Lippincott-Schwartz

Tom Hope

James Hurley

Roger Everett

Patrick Hearing

Arnold Berk

Ubiquitin and Ubiquitin-like Modifications in Viral Infection and Immunity Workshop

SESSION II: Cellular Structures HIGHLIGHTS

- Cytoplasmic structures
 - cytoplasmic bodies defense structures (TRIM5a)
 - autophagy (links to viruses?)
 ubiquitin for targeting organelles
- Nuclear structures
 - ND10/PODs/PML nuclear defenses
 - IFN responses
 - DNA damage
 - transcriptional silencing

Ubiquitin and Ubiquitin-like Modifications in Viral Infection and Immunity Workshop

SESSION II: Cellular Structures Research Opportunities & New Directions

- power of live cell imaging approaches
- viral modifying enzymes
 - therapeutic targets
- viral inhibitors of Ub/UbL modifications
 - therapeutic targets
- viral induced structures formation and function
 - viral replication centers/factories
 - HSV VICE domains
 - Ad E4orf3 tracks
 - aggresomes

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SESSION II: Cellular Structures Discussion Topics

- "True" function of ND10/PODs
 - intrinsic "nuclear defense"
 - PML vs Sp100 vs DAXX vs ??
- Role of SUMOylation
 - does it happen at ND10?
 - is it required for nucleation?
 - how is it affected by viral proteins?
 - reversibility?
- "cytoplasmic bodies" definitions and markers
- overlap with cancer